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**Title**                      *Active RCS Reduction: Studies on Adaptive Algorithms in Sidelobe Cancellers*

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## Abstract

*Adaptive arrays involve the processing of the signals induced on the elements of an array. In the present situation various algorithms are available for weight adaptation in array processing. They include sample matrix inversion (SMI), recursive least square (RLS) and least mean square (LMS). LMS is the one that is most widely acceptable algorithm because of its faster convergence and less complexity. Various forms of LMS are categorized depending upon the gradient estimation. In this document, structured and improved LMS algorithms are used to analyze the performance of GSC and DF-GSC in different jammer environment.*